



BY JOHNSON CONTROLS

Service Information

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New	1011

Equipment Affected: YLAA and YVAA Air-Cooled Chillers, YPAL and Eco2

Microchannel Coil Cleaning Procedure

GENERAL

The coil cleaning procedure for microchannel coils is significantly different than tube and fin type coils. As such, care must be taken to understand the differences to avoid damage to the microchannel coil.

These differences require a number of DO NOT's that must be observed:

- DO NOT use coil cleaners or any chemical on a microchannel coil. This can cause severe damage to the coils.
- DO NOT use a pressure washer to clean the coils. While it is possible to clean a coil with a pressure washer, it's also possible to destroy it.
- DO NOT contact the coil with a hard surface such as a hose nozzle or metal vacuum nozzle or any other tool.

MICROCHANNEL COIL CLEANING PROCEDURE

Follow the three steps below for cleaning the coils:

1. Remove surface debris such as dirt, leaves, insects, fibers, etc. with a vacuum cleaner having a soft attachment rather than a metal tube. Compressed air blown from the inside out can also be used. When brushing debris off the face of the coil, a soft bristle (not wire) brush can be used. Do not scrape the coil with the vacuum nozzle, air nozzle, or any other tool.
2. Rinse the coil with tap water. Do not use coil cleaners. Rinse the coil from the inside out, running water through every passage in the heat exchanger surface until it is clean. Use a gentle spray from a spray nozzle with a plastic end or put your finger on the end of the spray nozzle to reduce impact and provide a gentle spray.
3. Because of the fin geometry, microchannel coils retain water more than tube and fin style. It is generally recommended to blow or vacuum out the rinse water from the coils to speed drying and prevent water pooling.

Work on this equipment should only be done by properly trained personnel who are qualified to work on this type of equipment. Failure to comply with this requirement could expose the worker, the equipment and the building and its inhabitants to the risk of injury or property damage.

The instructions on this service bulletin are written assuming the individual who will perform this work is a fully trained HVAC & R journeyman or equivalent, certified in refrigerant handling and recovery techniques, and knowledgeable with regard to electrical lock out/tag out procedures. The individual performing this work should be aware of and comply with all Johnson Controls, national, state and local safety and environmental regulations while carrying out this work. Before attempting to work on any equipment, the individual should be thoroughly familiar with the equipment by reading and understanding the associated service literature applicable to the equipment. If you do not have this literature, you may obtain it by contacting a Johnson Controls Service Office.

Should there be any question concerning any aspect of the tasks outlined in this bulletin, please consult a Johnson Controls Service Office prior to attempting the work. Please be aware that this information may be time sensitive and that Johnson Controls reserves the right to revise this information at any time. Be certain you are working with the latest information.